SONY.

Compact
Hi-Fi Stereo System

Operating instructions

disc
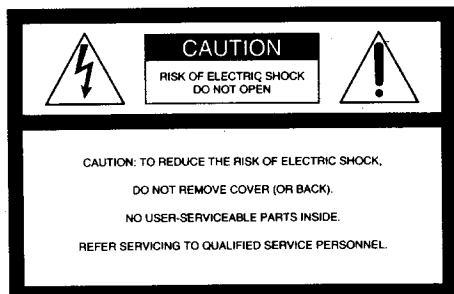COMPACT
DIGITAL AUDIO

LBT-D570

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Notice for Customers in the U.S.A.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

CAUTION
You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

Note to CATV installer:
This reminder is provided to call CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Owner's Record
The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____   Serial No. _____

For customers in Canada

CAUTION
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Welcome !

Thank you for purchasing the Sony Hi-Fi Component System. This series is packed with fun features. Here are just a few:
• DBFB (Dynamic Bass Feedback) system that boosts low frequency range audio to provide deep, powerful bass sound
• A preset feature, that lets you store and recall up to 30 of your favorite radio stations
• A graphic equalizer that lets you adjust the audio quality to match 10 music types
• A loop play function that lets you play a short portion of a track repeatedly like a sampler on the CD player
• A timer that lets you set the CD player, tape player or radio to turn on and off whenever you want
• A dual tape deck that lets you record from the radio, CD player or from the other tape deck and relay play from both decks
• A CD player that lets you play up to 5 CDs in a row
• A music clip feature, that lets you create groups of favorite tracks from your CDs
• A remote that lets you control the music from your seat

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Chapter 1:
Setting Up

Connecting the Stereo

Inserting the Batteries

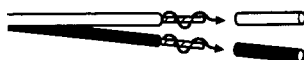Setting the Clock

Connecting the Stereo

Use the illustrations below to connect your stereo.
If you want to connect any optional components to the stereo, see "Connecting Optional Equipment" in Chapter 6.
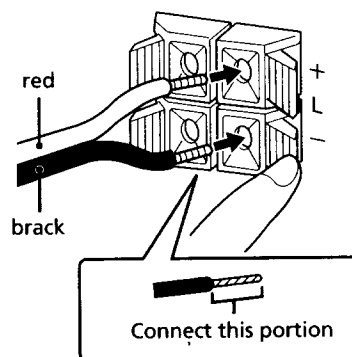
STEP 1 Connecting the Speakers

Before connecting the speakers
Twist the speaker cable coating and pull it from the end of the cable.

To connect the front speakers
Connect the right speaker to the SPEAKER R connectors and the left speaker to the SPEAKER L connectors with the red cord to + and the black cord to –.

red

brack

Connect this portion

To connect the surround speakers
Connect the right surround speaker to the SURROUND SPEAKER R connectors and the left surround speaker to the SURROUND SPEAKER L connectors with the gray cords to + and the gray with black stripes cords to –.
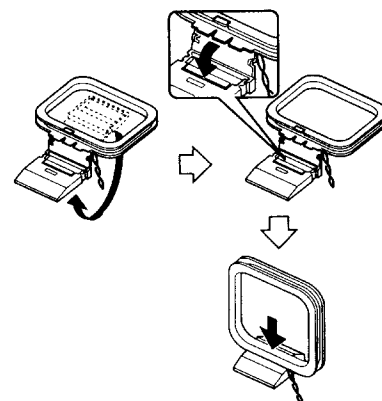
Connect this portion
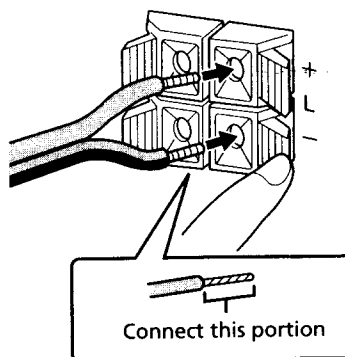
STEP 2 Connecting the Antenna

AM loop Antenna (supplied)

AM

FM 75Ω

FM wire Antenna* (supplied)
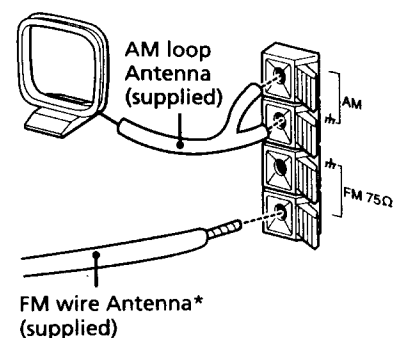
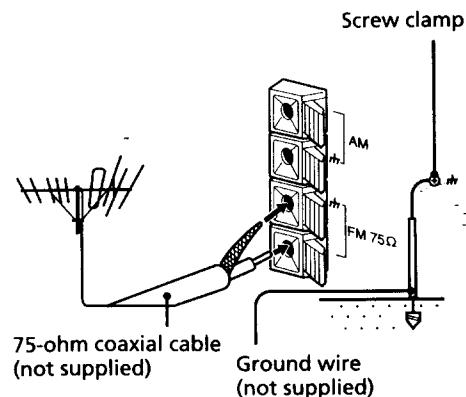*Note: Extend it horizontally

To set up the AM loop antenna

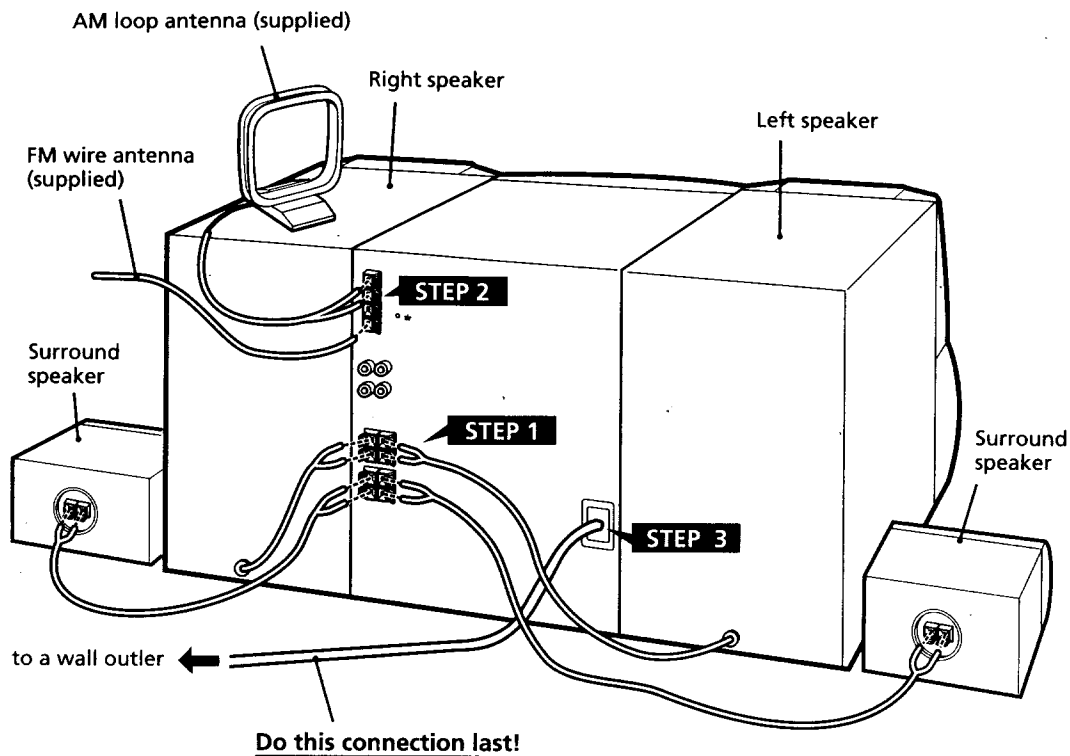**To improve the FM reception**
Connect an outdoor FM antenna to the FM 75Ω terminal, using a 75-ohm coaxial cable.

Important
Ground the external antenna from ⏚ terminal against lightning with the screw clamp. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Screw clamp

AM

FM 75Ω

75-ohm coaxial cable (not supplied)

Ground wire (not supplied)

AM loop antenna (supplied)

Right speaker

Left speaker

FM wire antenna (supplied)

Surround speaker

STEP 2

STEP 1

STEP 3

Surround speaker

to a wall outler ◀

Do this connection last!

To improve the AM reception

After you connect the AM antenna, connect a 6- to 15-meter (20- to 50-feet) insulated wire to the AM terminal. Connect the ⌀ terminal to ground.
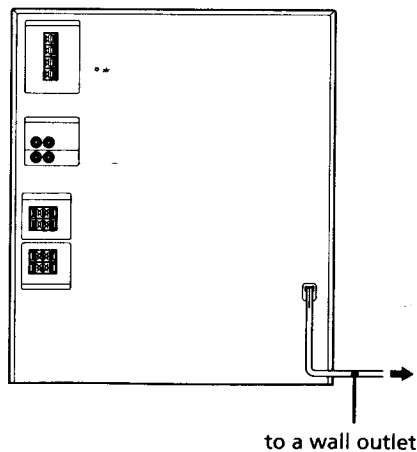
Important

Ground the external antenna from the ⌀ terminal against lightning with the screw clamp. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Screw clamp

Insulated wire (not supplied)

AM

FM 75Ω

Ground wire (not supplied)
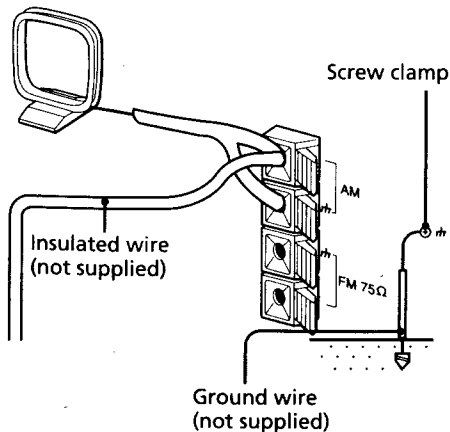
STEP 3 Connecting the Power

Connect the AC power cord to a wall outlet after you have made all the above connections.

to a wall outlet

Demo mode

The demo mode appears in the display when you connect the AC power cord to a wall outlet. To deactivate the demo mode, press DISPLAY/DEMO when the system power is off.
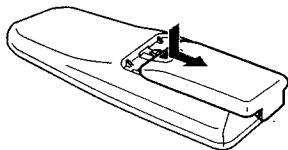
Note

When you turn on the system power for the first time, the disc tray starts rotating. You can operate the CD player after the disc tray stops rotating and "CD NO DISC" appears in the display.
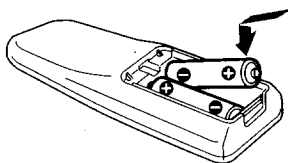
Inserting the Batteries

Insert two size AA (R6) batteries in the supplied remote for remote control.

1 Open the lid.

2 Insert two size AA (R6) batteries.
Match the + and – to the diagram in the battery compartment.

3 Close the lid.

Battery life
You can expect the remote to operate for about six months (using Sony SUM-3 (NS) batteries) before the batteries run down. When the batteries no longer operate the remote, replace all the batteries with new ones.

To avoid battery leakage
If you are not going to use the remote for a long time, remove the batteries to avoid damage caused by corrosion from battery leakage.
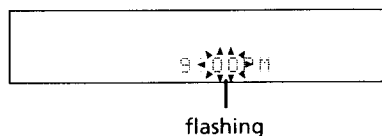
Setting the Clock

The built-in clock shows the time in the display.

1 Press CLOCK SET.
The "AM" and hour indications begin flashing.
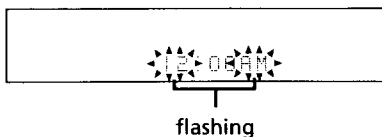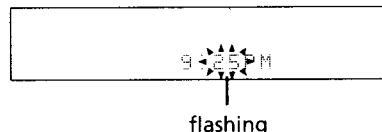
flashing

2 Set the current hour by pressing ◀ or ▶ (CURSOR CONTROL) until the correct hour appears.
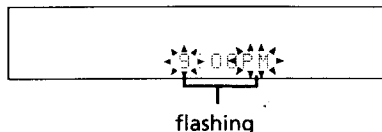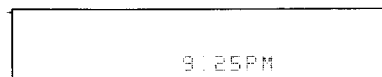
flashing

3 Press ENTER/NEXT.
The minutes indication begins flashing.

flashing

4 Set the current minute by pressing ◀ or ▶ until the correct minute appears.

flashing

5 Press ENTER/NEXT.
The clock starts running and the upper dot flashes. Use the time signal to set the clock accurately. The upper dot flashes for the first half of a minute (0 to 29 seconds), and the lower dot flashes for the last half of a minute (30 to 59 seconds).

To check the time
Press DISPLAY/DEMO a few times.
The current time appears for a few seconds.

To correct the clock setting
Repeat steps 1 to 5.

2,4
3,5
DISPLAY/
DEMO

Chapter 2:

the CD Player

- **Playing CDs (normal play)**

- **Playing Tracks in Random Order (shuffle play)**

- **Playing Tracks in the Desired Order (program play)**

- **Playing Tracks Repeatedly (repeat play)**

- **Playing Tracks with Repeating a Specified Portion (loop play)**

- **Grouping Tracks (music clip)**

Playing CDs (normal play)

After you insert up to five CDs, you can play all tracks or discs in the original order consecutively (normal play).
You can also play them in four modes: normal, shuffle, program, or repeat.
Before you play a CD, decrease the volume level by turning the VOLUME control counterclockwise to prevent damage to the speakers.

DISC 1 – 5   **5 4 2**JOG dial
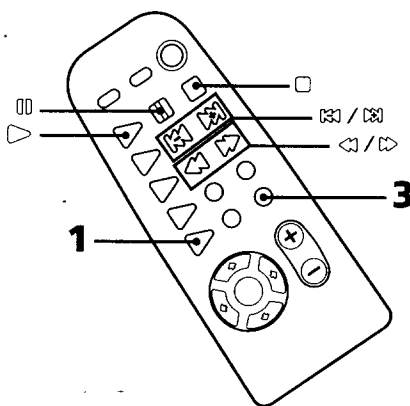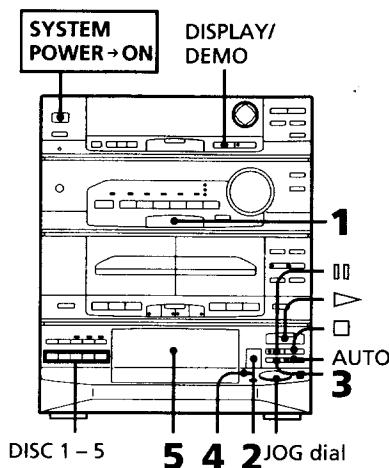
1 Press FUNCTION repeatedly until "CD" appears in the display.
CD is selected.

**2** Press ⏏ OPEN and place a CD (label side facing up) on the disc tray in the loading position.
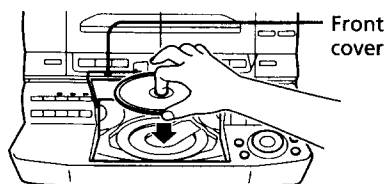
3 Press DISC SKIP to place up to four more CDs on the disc tray.
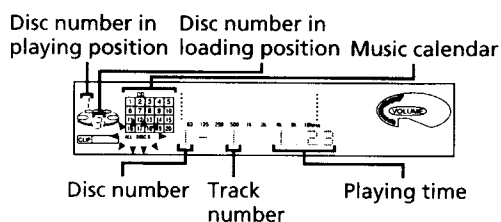The disc tray rotates so you can insert other CDs.

4 Press CONTINUE on the CD player to choose whether to play "1 DISC" or "ALL DISCS."

Choose	To play
1 DISC	Only the CD you have selected.
ALL DISCS	All CDs consecutively in the order. Empty disc trays are skipped.
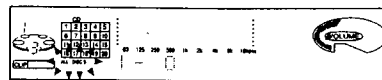
5 Close the front cover.
Play starts automatically from the CD in the loading position. The disc number (of which color is orange) appears in the disc calendar .

Disc number in   Disc number in
playing position   loading position   Music calendar

Disc number   Track   Playing time
               number

When AUTO indicator is not lit
Press CD ▷ (or CD ▷ on the remote) to play a CD.

To	Press
Stop play	☐ (☐ *1)
Pause	ⅠⅠ (ⅠⅠ *1)
Resume play	▷ or ⅠⅠ (▷*1or ⅠⅠ *1)
Go forward to another track	During play or pause, turn the JOG dial clockwise*2. Or press AMS*3⊠ on the remote.
Go back to a previous track	During play or pause, turn the JOG dial counterclockwise*2. Or press AMS*3 ⊠ on the remote.
Select a particular CD	The corresponding DISC 1-5 button*4 or press DISC SKIP repeatedly
Remove or exchange a CD	⏏ OPEN*5

*1 Remote
*2 Turning the JOG dial quickly skips to the next CD.
*3 Auto Music Sensor

continue to next page →

*4 If there is no disc at that number, the disc tray rotates and plays the next CD. If there is no disc at that number with the front cover opened, the disc tray rotates to the loading position.

*5 The disc tray rotates and brings the CD in the playing position to the loading position automatically when AUTO is selected (the AUTO indicator is lit).

To remove or exchange the CD in the loading position while playing
Press ⏏ OPEN and remove or exchange the loading position.

Note
After exchanging the CD in the loading position while playing, the CD in the loading position which you exchanged is the next CD to be played when AUTO is selected.

To play tracks consecutively (non-stop play)
Press and hold down CD ▷ on the CD player for a second.

To cancel non-stop play
Press □ on the CD player.

Note
You cannot use this feature when the CD play mode is SHUFFLE or PROGRAM. Press CONTINUE so that "SHUFFLE" or "PROGRAM" disappears from the display.
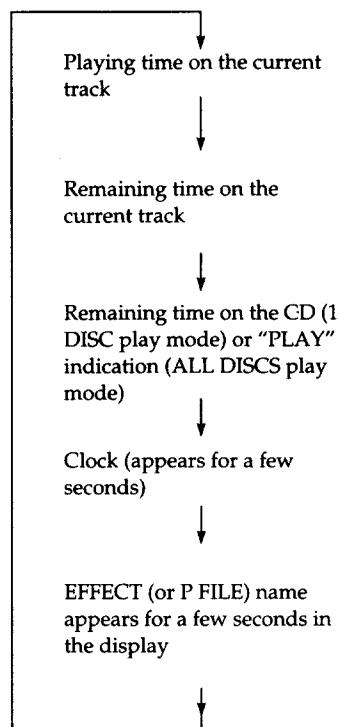
To locate a particular point in a track
You can locate a particular point in a track while playing a CD. Use the buttons on the remote to operate this feature.

To locate a point	Press
While monitoring the sound	▷ (forward) or ◁ (backward) on the remote and hold down until you find the point.
Quickly by observing the display during pause	▷ (forward) or ◁ (backward) on the remote and hold down until you find the point. You will not hear the sound during this operation.

To check the remaining or total playing time
Press DISPLAY/DEMO repeatedly. Each time you press DISPLAY/DEMO while playing a CD, the display changes as follows:

Playing time on the current track

↓

Remaining time on the current track

↓

Remaining time on the CD (1 DISC play mode) or "PLAY" indication (ALL DISCS play mode)

↓

Clock (appears for a few seconds)

↓

EFFECT (or P FILE) name appears for a few seconds in the display

↓

Note
"-- . --" appears in the display when the remaining time is 100 minutes or more.

When AUTO indicator is lit
- The CD in the loading position starts playing automatically when you close the front cover.
- The playing CD comes back to the loading position when you stop playing and open the front cover.
- When you exchange the CD while playing, the exchanged CD is the next CD to be played and the disc number keeps flashing.

If you don't want a CD to function as described above, press AUTO so that the AUTO indicator goes off.

One Touch Play feature
Press CD ▷ (or CD ▷ on the remote) when the power is off. You can listen to the last selected CD without pressing any other buttons when a CD is in the player. If you press CD ▷ or DISC 1 – 5 while another source is selected, the CD player is selected and play starts automatically.

The music calendar display
This display lights according to the number of the tracks on the CD. As each track is played, the corresponding number disappears.
Tracks numbering more than 20 are not displayed.

*What the orange and red numbers in the disc calendar indicate*
- The orange number in the disc calendar indicates the disc number in the playing position. When the CD player is not playing and the AUTO indicator is not lit, the CD whose disc number is orange is the next CD to be played.
- The red number in the disc calendar indicates the disc number in the loading position.
You can remove the CD whose disc number is red while playing.

Playing Tracks in Random Order (shuffle play)

You can play all the tracks on a CD or all CDs in random order.

SYSTEM POWER→ON

DISC 1 – 5   CONTINUE   **2**
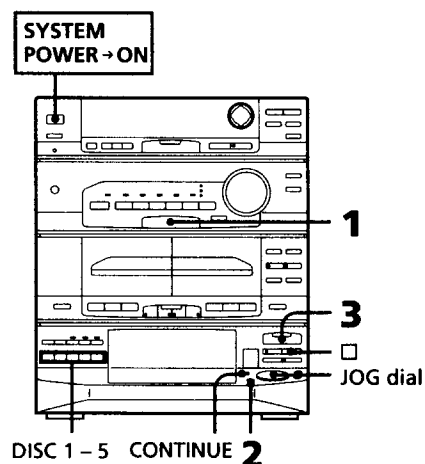
1 Press FUNCTION repeatedly until "CD" appears in the display.

2 Press SHUFFLE to choose whether to play "1 DISC" or "ALL DISCS". "ALL DISCS SHUFFLE" or "1 DISC SHUFFLE" appears in the display.
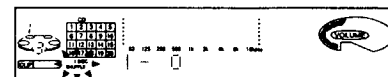
3 Press CD ▷ (or CD ▷ on the remote). " ⌐, " appears and then all the tracks play in random order.
To skip to the next track, turn the JOG dial clockwise on the CD player (or press ▷▷ on the remote).
To replay the current track, turn the JOG dial counterclockwise on the CD player (or press ◁◁ on the remote). You cannot replay the previous track.

To stop playing
Press ☐ on the CD player (or ☐ on the remote).
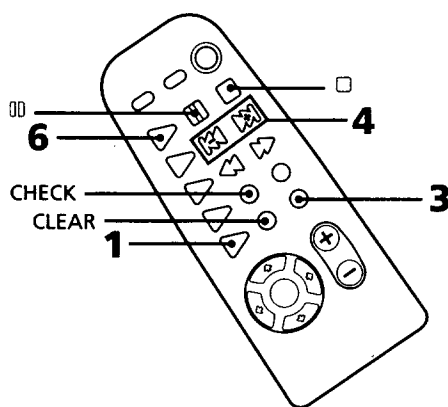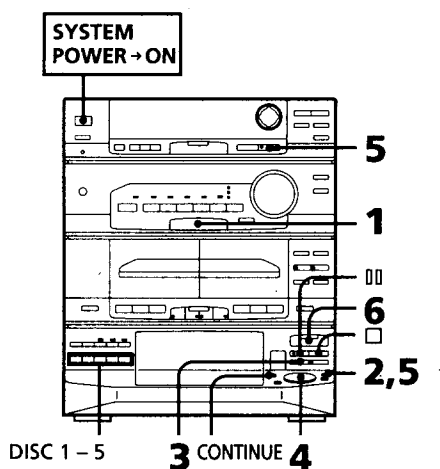
To cancel shuffle play
Press CONTINUE on the CD player.

To select the desired CD
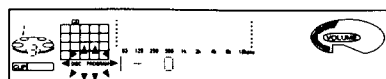Press DISC 1 – 5 on the CD player during "1 DISC SHUFFLE" play.

Playing Tracks in the Desired Order (program play)

You can program up to 32 tracks from all the CDs in the order you want them to be played.

DISC 1 – 5   **3** CONTINUE **4**

CHECK
CLEAR

1 Press FUNCTION repeatedly until "CD" appears in the display.

2 Press PROGRAM.
"PROGRAM" appears in the display.

3 Press DISC SKIP repeatedly (or DISC 1 – 5) to choose a CD.

4 Turn the JOG dial (or press ⊠ / ⊠ on the remote) to choose a track.
The chosen track number appears and the playing time flashes for about 15 seconds in the display.

5 Press PROGRAM or ENTER/NEXT.
The chosen track is programed and its number lights up in the music calendar.
If the track number disappears before you press PROGRAM or ENTER/NEXT, go back to step 3.

To program additional tracks from the same CD, repeat steps 4 and 5.

To program additional tracks from another CD, repeat steps 3 to 5.

Note
• If "-- . -- " appears instead of the total playing time, this means
  – you have programed a track number which exceeds 20.
  – the total time has exceeded 100 minutes.

6 Press CD ▷ (or CD ▷ on the remote).
All the tracks play in the order you choose.

To	Press
Check the program	CHECK on the remote repeatedly*¹
Program a pause	ⅠⅠ*² (ⅠⅠ on the remote)
Stop play	☐ (☐ on the remote)
Cancel the program play	CONTINUE*³
Erase a track from the end	CLEAR on the remote in stop mode
Erase a specific track	CHECK on the remote repeatedly so the number of the track lights up, and press CLEAR on the remote
Erase a entire program	☐ (☐ on the remote) once in stop mode or twice while playing

*¹ After the last track appears, "CHECK END" appears in the display.
*² "P" appears in the display and the total playing time is reset to 0.00.
*³ The program is erased.

To change the order of programed tracks
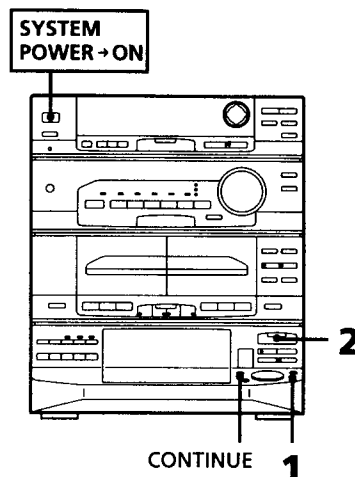Erase the entire program and create a new one.

The whole program is erased also when:
• you select another play mode.
• you change or remove the CDs.

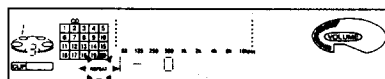## Playing Tracks Repeatedly (repeat play)

The repeat play function repeats a single CD or all CDs in normal, program, and shuffle play.
In normal play mode only, the player can also repeat a single track.

CONTINUE **1**

Repeating all the tracks
1 Press REPEAT once so that "REPEAT" lights up in the display.

2 Press CD ▷ (or CD ▷ on the remote).

To	Press
Repeat all the tracks on the current CD	CONTINUE repeatedly until "1 DISC" appears in the display.
Repeat all the tracks on all CDs	CONTINUE repeatedly until "ALL DISCS" appears in the display.
Repeat only one track (in normal play only)	REPEAT repeatedly until "REPEAT 1" appears in the display while playing the track you want to repeat.

To cancel repeat play
Press REPEAT so that "REPEAT" or "REPEAT 1" disappears from the display.

Playing Tracks with Repeating a Specified Portion (loop play)

You can make a sampler sound effect by playing a short portion of the track repeatedly (loop play). It is useful for making original dance music style tapes.
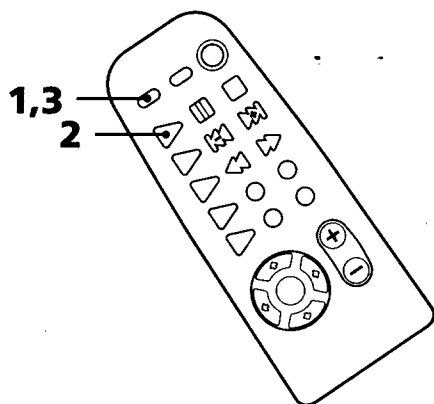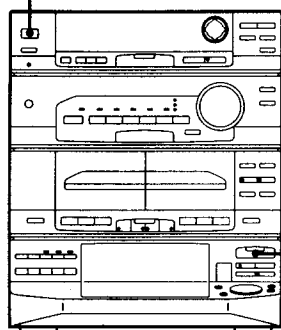
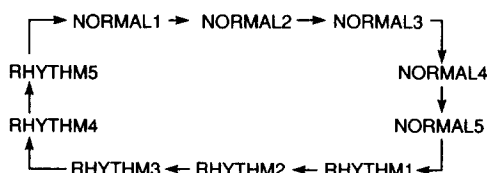**Original music :**
Hey, Come on Everybody!

When you make the effect :
Hey, Co Co Co Co Come on Everybody!

1 Press the LOOP button on the remote. You can choose the repeating time from about 0.25 sec. to about 1 sec. for NORMAL 1 – 5 and RHYTHM 1 – 5. For more information on NORMAL and RHYTHM, see "What is the difference between NORMAL and RHYTHM ?" for details.

You can get the longest repeating time by selecting NORMAL (RHYTHM) 5, and the shortest with NORMAL (RHYTHM) 1.

2 Press CD ▷ (or CD ▷ on the remote). The CD player starts playing.

3 Press and hold down the LOOP button when the portion you want to repeat is heard.

What is the difference between NORMAL and RHYTHM?

The NORMAL differs from RHYTHM in respect to the restarting point of the music when the loop effect ends in step 3. Select the repeating time when CD player is in pause or stop.
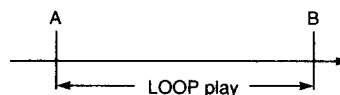
When you play the loop for five seconds

NORMAL
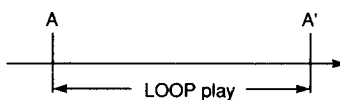
In this case, the song restarts at the point that you started the loop (A).

RHYTHM

In this case, the song restarts at the point 5 sec. after you started the loop (B).

Grouping Tracks (music clip)

The music clip function is an easy way to create up to 3 arbitrary groups of tracks from your CDs. For example, you could store tracks for the morning in CLIP A, tracks to play for your friends in CLIP B, and tracks for relaxing in CLIP C.
Once you store one or more tracks in a music clip(s), the player recalls those tracks whenever you play the respective disc.

Storing Tracks in a Clip
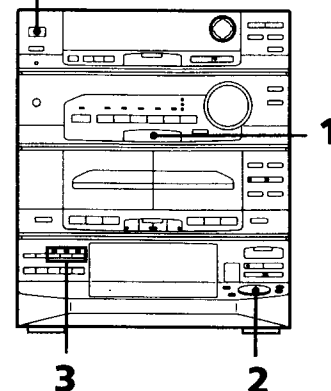
1 Press FUNCTION repeatedly until "CD" appears in the display.

2 Play the track you want to store by turning the JOG dial to select the track you want.

3 Press a CLIP button (A, B or C). "CLIP FILE" appears and indicator of CLIP you stored appears in the display. Normal playback continues.

4 Repeat steps 2 and 3 to store other tracks into the same, or a different clip.

If the memory becomes full
Each clip can hold memory tracks from 10 different CDs even if you have removed or exchanged CDs.
The clip data for the oldest clip is erased to make room for a new clip.

Notes
• In stop mode, music clips cannot store tracks when "SHUFFLE" or "PROGRAM" is lit in the display.
• Only tracks numbered 1 - 20 on the disc can be stored in music clips. The tracks numbered 21 or more cannot be stored.

Playing Tracks in a Clip (clip play)

Clip indicators (A, B or C) light in the display to let you know when clips are stored for a disc.
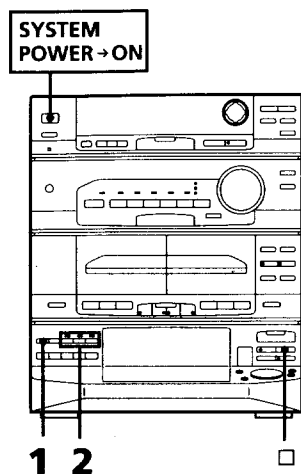
1 Press MUSIC CLIP PLAY.
"SELECT A – C" and "PLAY A – C" appears in the display alternately.

2 Press a CLIP button (A, B, or C) .
"CLIP PLAY" appears in the display and the selected CLIP indicator lights up.
The player starts playing tracks from the selected CLIP.
You can see the tracks in CLIP with music calendar.

To cancel clip play
Press □ on the CD player.

Notes
• In 1 DISC mode, the tracks stored for the selected disc are played back once, then clip play is released.
• In ALL DISCS mode, all the tracks stored for the currently loaded discs are played back once, then clip play is released.
• You cannot start CLIP play if "PROGRAM" is displayed.

Erasing Tracks from a Clip

MUSIC CLIP ERASE   CLIP A, B, C   JOG dial
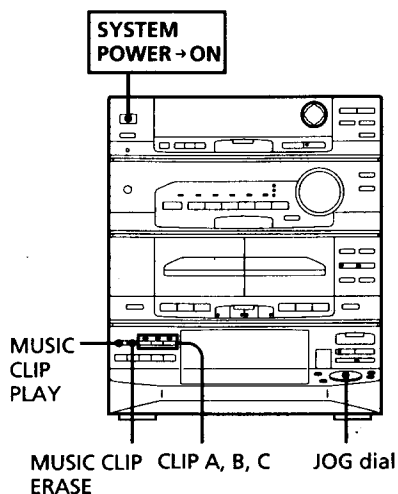
Erasing a track
1 Press MUSIC CLIP PLAY.
2 Press the CLIP button (A, B, or C) for the clip containing the tracks you want to erase.
3 Use the JOG dial to select the track you want to erase.
4 Press MUSIC CLIP ERASE while the track you want to erase is being played .
"ERASE A – C" and "TRACK A – C" appear alternately in the display and the selected CLIP indicator flashes.
5 Press CLIP button while the indicator is flashing.
The play stops and the selected track is erased.

Erasing all the tracks in a CLIP A (B or C)
1 In stop mode, press MUSIC CLIP ERASE.
"ERASE A – C" and "ALL A – C" appear alternately in the display and all CLIP indicators flash.
2 Press a CLIP button (A, B, or C) to specify the clip you want to erase.
"PUSH" and the selected CLIP (A, B or C) indicator appears in the display.
3 Press the CLIP button you have pressed on step 2 again.

Note
You cannot erase tracks if a CD includes the tracks you stored is not in playing position.

Chapter 3:

the Radio

Listening to the Radio

Presetting Radio Stations

Playing Preset Radio Stations

Listening to the Radio

When you want to play a radio program, you can have the tuner automatically scan the radio frequencies and tune in the stations with clear signals. This feature saves you time in searching for stations with clear signals.
However, stations with weak signals may be skipped by automatic tuning. Manually tune in stations with weak signals.
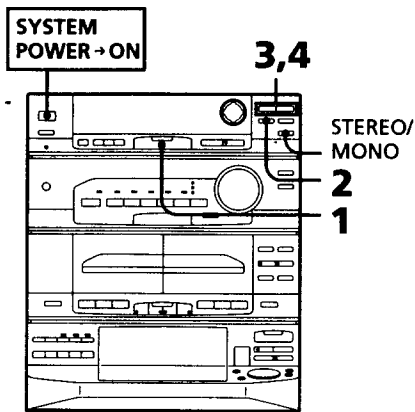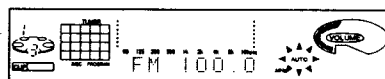

1 Press TUNER/BAND repeatedly until the band you want appears and in the display.
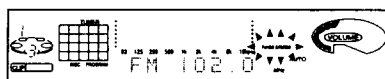As you press this button, the band changes as follows:

FM ◆───► AM
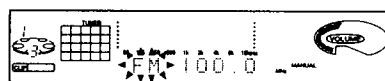
2 Press TUNING MODE repeatedly until "AUTO" appears in the display.

3 Press TUNING +/- buttons (or ⊠/⊠ on the remote).
The tuner starts scanning radio frequencies, and stops when it finds a clear station. "TUNED" appears in the display. "STEREO" also appears if the FM station tuned in is broadcasting in stereo.

4 If you don't want to listen to the selected station, press TUNING +/- (or ⊠/⊠ on the remote) buttons to restart the scan.

When the desired station is not tuned in

Automatic tuning may skip the stations with weak signals and continue scanning without a stop. In this case, tune in the station manually.
1 Press TUNING MODE repeatedly until "MANUAL" appears in the display.
2 Press TUNING +/- buttons repeatedly until the desired station is tuned in.

To improve AM broadcast reception

Reorient the supplied AM loop antenna for AM.

AM
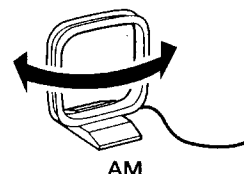
To change the AM tuning interval

The AM tuning interval is preset to 10 kHz at the factory. If you need to change the interval, do as follows:
1 Turn on the power.
2 Change the band to AM.
3 Turn off the power.
4 Turn the power back on while pressing ENTER/NEXT.
After changing the AM tuning interval, reset the preset radio stations. To reset the interval to the factory setting, follow the same procedure.

When an FM program is not received clearly

Press STEREO/MONO on the unit so that "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press STEREO/MONO again to restore the stereo effect.

One Touch Play feature

Press TUNER/BAND when the power is off or when you are listening to another sound source.
You can listen to the last received station without pressing any other buttons.

Note

When you listen to a sound source other than the tuner, you can select the tuner by pressing TUNER/BAND (Automatic Source Selection).
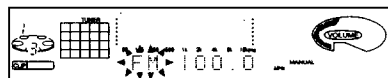
Presetting Radio Stations

You can store radio frequencies in the tuner's memory to tune in your favorite stations quickly. You can preset up to 20 FM stations and 10 AM stations in any order.
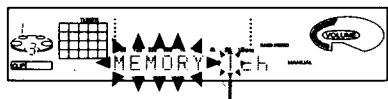
SYSTEM
POWER→ON
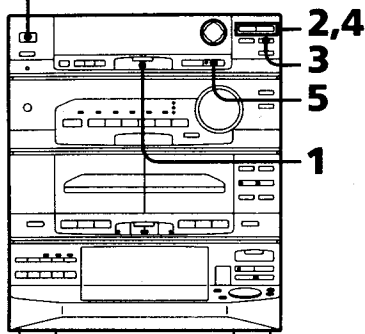
1 Press TUNER/BAND repeatedly until the band you want appears in the display.

FM ◄──► AM

2 Press TUNING +/− buttons to tune in the station you want to store.

3 Press TUNER MEMORY.
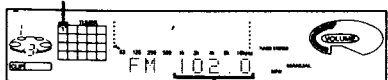"MEMORY" appears and the preset channel number flashes in the display.

Preset channel number

4 Press TUNING +/− buttons to display the preset channel number you want.

5 Press ENTER/NEXT.
"MEMORY" disappears, and the station is stored at the preset channel number you decided on.

Preset channel number

Tuned station frequency

6 Repeat steps 1 to 5 for each station you want to store.

To erase a stored station
Store a new station at a previously used preset station number. It will erase the old station and replace it with the new station.

If you have trouble storing a station
Make sure "MEMORY" is lit in the display. If not, press TUNER MEMORY again so that "MEMORY" appears (for about eight seconds) in the display, and then proceed with steps 4 and 5.
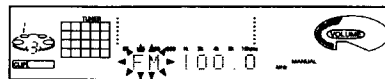
Playing Preset Radio Stations

Once you have preset the stations, use the TUNING +/− buttons (or ◁ / ▷ on the remote) to quickly tune in your favorite stations.

SYSTEM
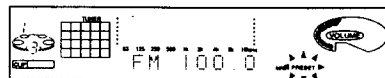POWER→ON
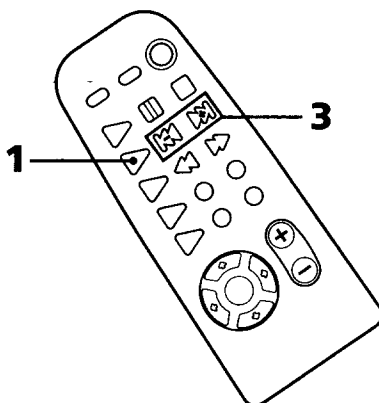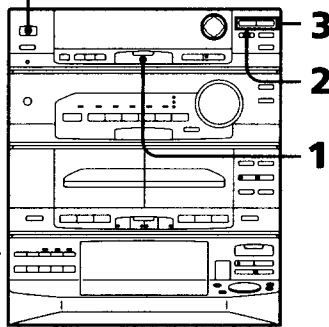
1 Press TUNER/BAND repeatedly until the band you want appears in the display.
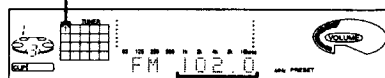
FM ◄──► AM

2 Press TUNING MODE repeatedly so that "PRESET" appears in the display.

3 Press TUNING +/− buttons (or ◁ / ▷ on the remote) to tune in a preset station.
The station frequency appears and the system begins receiving the stations.

Preset channel number

Station frequency

Chapter 4:
the Tape Player

Playing a Tape

You can use TYPE I (normal) and TYPE II (CrO2) tapes. When you insert a tape, the deck detects the tape type automatically.
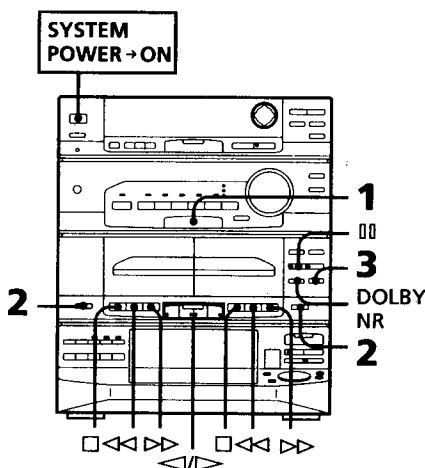
1 Press FUNCTION repeatedly until "TAPE" appears in the display.

2 Press ≜ EJECT to open the tape compartment.
Insert a recorded tape in deck A or B with the tape side facing down and the side you want to play facing forward. Push to close the compartment.
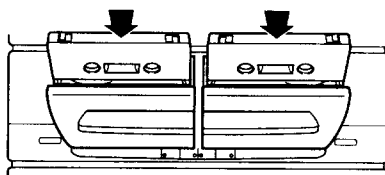
3 Press DIRECTION to choose single-side, dual-side, or relay play.
The DIRECTION setting affects both decks.

To play	Press DIRECTION to select
One side of the tape	⇌
Both sides*	⊂⇌⊃
Both decks in succession**	RELAY

* The deck stop automatically after repeating the sequence five times.
**See "To play both decks in succession (relay play)".

4 Press ▷ (to play the front side) or ◁ (to play the reverse side).
The tape starts playing.

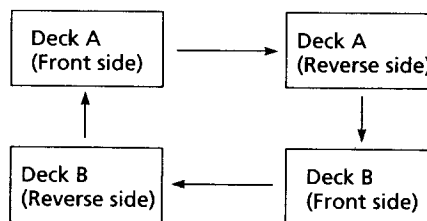| To	Press
Stop play	□
Pause (DECK B only)	◌◌
Resume play after pause	◌◌ or ◁ or ▷
Fast forward	▷▷ for front side ◁◁ for reverse side
Rewind	◁◁ for front side ▷▷ for reverse side
Remove the cassette	≜ EJECT

To control the remote
1 Press DECK A ▷ or DECK B ▷ to play the front side and press DECK A ▷ or DECK B ▷ again to play the reverse.
2 Press the desired operation button.

To play both decks in succession (relay play)
Relay play is according to the following sequence. When the reverse side of the tape in deck B finishes playing, the sequence continues four more times.

1 Press ≜ EJECT and insert recorded tapes in both decks.
2 Press DIRECTION repeatedly until "RELAY" appears in the display.
3 Press ◁ or ▷ on either deck. To stop relay play, press □.

To cancel relay
Press DIRECTION repeatedly until "⇌" or "⊂⇌⊃" appears in the display.

When listening to a tape recorded with the Dolby* B-type noise reduction system
Press DOLBY NR button so that "DOLBY NR B" appears in the display.
The settings affects both decks. Dolby noise reduction system reduces tape hiss noise in low-level high-frequency signals.

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ◌◌ are trademarks of Dolby Laboratories Licensing Corporation.

One Touch Play feature
Press ◁ or ▷ (or DECK A ▷/DECK B
▷ on the remote) when the power is off.
When a tape is in the player, you will
immediately be able to listen to the tape
without pressing any other buttons. If no
tape is inserted, the system will just turn
on.
The tape player always starts playing from
the front side of the tape when you operate
the remote.

Recording a CD

You can record from a CD to a tape. Use
TYPE I (normal) or TYPE II (CrO₂) tapes.
You can not listen to other sources while
recording.

Recording a CD automatically

By using CD SYNCHRO, you can record
from a CD to a tape easily.
Use the buttons on the unit for this
operation.

1 Press FUNCTION repeatedly until
"CD" appears in the display.

2 Press ≙ OPEN and place a CD on the
tray.
Make sure the disc number in the
playing position in the display is the one
you want to record.
The total number of tracks and the
playing time appear in the display.

3 Press ≙ EJECT and insert a blank tape
into deck B with the side you want to
record on facing forward.
Recording starts from the front side of
the tape, unless you change the playing
direction before recording.

Make sure the tabs on the cassette have
not been removed.

4 Select dual or single-sided recording.

To record	Press DIRECTION to select
One side of the tape	⇌
Both sides*	⊂⇌ or RELAY

* Recording always stops at the end of the
reverse side. Be sure to start from the
front side.

5 When you want to reduce the hiss noise
in low-level high-frequency signals, .
Press DOLBY NR so that "DOLBY NR
B" appears in the display.

6 Press CD SYNCHRO.
The REC and ⅅⅅ (pause) lamps light up
and deck B stands by for recording.
The ▷ lamp lights up and the ◁ lamp
flashes for a few seconds, then
disappears.
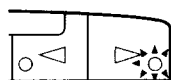
Side in recording
pause mode

If you want to start recording from the
reverse side, press ◁ so that the ◁
lamp lights steadily.

7 Press ⅅⅅ on the tape player to release
recording pause.
Recording starts.
After about 10 seconds, the CD starts
playing.

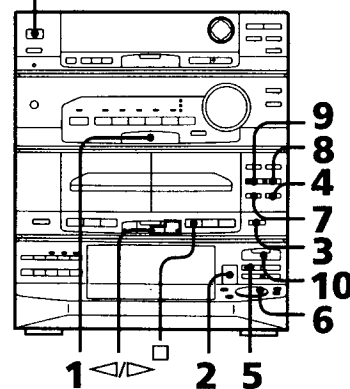**To stop recording**
Press □ on the tape player or the CD
player.

To record with surround effect
Press SURROUND so that "SUR (((■■)))) "
appears in the display.
The equalizer you have adjusted will not be
recorded.

Recording a CD Manually

You can record a CD as you like, for
example, record just the songs you want or
record from the middle of the tape.

1 Press FUNCTION repeatedly until
"CD" appears in the display.

2 Press ≙ OPEN and place a CD on the
tray.
Make sure the disc number in the
playing position in the display is the one
you want to record.
The total number of tracks and the
playing time appear in the display.

3 Press ≙ EJECT and insert a blank tape
into deck B with the side you want to
record on facing forward.

Recording starts from the front side of
the tape, unless you change the playing
direction before recording.
Make sure the tabs on the cassette have
not been removed.

4 Select dual or single-sided recording.

To record	Press DIRECTION to set
One side of the tape	⇌
Both sides*	⊂⇌ or RELAY

* Recording always stops at the end of the
reverse side. Be sure to start from the
front side.

5 If you want to record a specific track of
the CD, press ⅅⅅ on the CD player.
The CD player pauses for playing.
If you do not need to choose a track,
skip to step 7.

6 Turn the JOG dial to choose the track
you want to record.

7 When you want to reduce the hiss noise
in low-level high-frequency signals,
Press DOLBY NR so that "DOLBY NR
B" appears in the display.
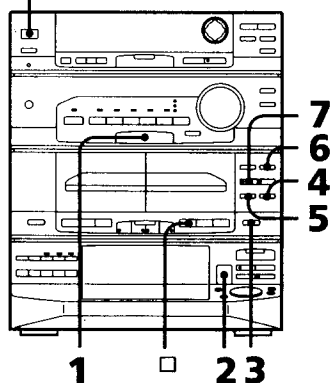
continue to next page →

8 Press REC.

The REC and ⅠⅠ (pause) lamps light up
and deck B stands by for recording.
The ▷ lamp lights up and the ◁ lamp
flashes for a few seconds, then
disappears.

Side in recording
pause mode

If you want to start recording from the
reverse side, press ◁ so that the ◁
lamp lights steadily.

9 Press ⅠⅠ to release recording pause.
Recording starts.

10 Press CD ▷.
The CD player starts playing.

To	Press
Stop recording	□
Pause recording	ⅠⅠ

To record with the surround effect
Press SURROUND so that "SUR ((⑴⑴◼◼⑴))) "
appears in the display.
The equalizer you have adjusted will not be
recorded.

Note
If you want to record specific tracks of the
CD, the "program edit" feature will make it
easier.

Recording a CD: Selecting Tape Length (tape select edit)

You can have the stereo system select and
indicate the most suitable tape length for
recording each disc automatically.
You cannot use tape select edit for discs
which contain 21 tracks or more.
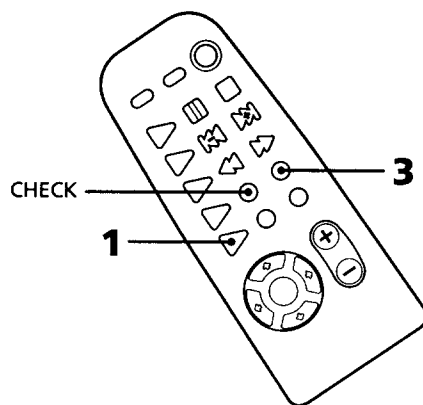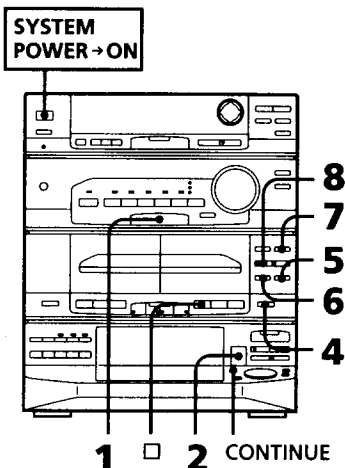
SYSTEM
POWER → ON

1 Press FUNCTION repeatedly until
"CD" appears in the display.

**2** Press ≜ OPEN and place a CD on the
tray.
Make sure the disc number in the
playing position in the display is the one
you want to record.
The total number of tracks and the
playing time appear in the display.

3 Press EDIT on the remote.
"TAPE SELECT" appears in the display
and the player divides the selections
automatically.
Then the display changes as follows:

TAPE SELEC

TAPE◀C-64▶

flashing
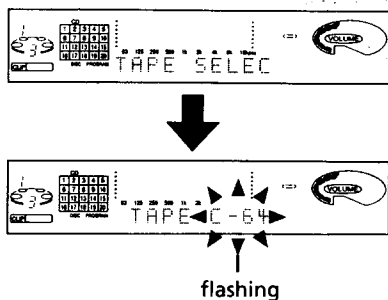
4 Press ≜ EJECT and insert a blank tape
of the indicated length (or longer) into
deck B with the side you want to record
on facing forward.
Make sure the tabs on the cassette have
not been removed.

5 Select dual or single-sided recording.

To record	Press DIRECTION to select
One side of the tape	⇌
Both sides*	⊂⊃ or RELAY

* Recording always stops at the end of the
  reverse side. Be sure to start from the
  front side.

6 When you want to reduce the hiss noise
in low-level high-frequency signals,
Press DOLBY NR so that "DOLBY NR
B" appears in the display.

7 Press CD SYNCHRO.
The REC and ⅠⅠ (pause) lamps light up
and deck B stands by for recording.
The ▷ lamp lights up and the ◁ lamp
flashes for a few seconds, then
disappears.

Side in recording
pause mode

If you want to start recording from the
reverse side, press ◁ so that the ◁
indicator lights steadily.

8 Press ⅠⅠ on the tape player to release
recording pause.
Recording starts.
After about 10 seconds, the CD player
starts playing.

To stop recording
Press □.

To check the order
Press CHECK on the remote.

To cancel tape select edit
Press CONTINUE on the CD player.

Recording a CD: Specifying Tape Length (time edit)

You can have the stereo system create programs based on the tape length.
The CD player makes programs that will fit the tape length. For example, if you use a 46-minute tape to record a 50-minute CD, the CD player will automatically choose tracks that will fit within the 46-minutes, filling as much of the tape as possible. The player will not program those tracks beyond track number 20.
Use the buttons on both the unit and the remote to do this operation.

1 Press FUNCTION repeatedly until "CD" appears in the display.

2 Press ▲ OPEN and place a CD on the tray.
Make sure the disc number in the playing position in the display is the one you want to record.
The total number of tracks and the playing time appear in the display.

3 Press ▲ EJECT and insert a blank tape into deck B with the side you want to record on facing forward.
Recording starts from the front side of the tape, unless you change the playing direction before recording.
Make sure the tabs on the cassette have not been removed.

4 Select dual or single-sided recording.

| To record	Press DIRECTION to select
One side of the tape	⇌
Both sides*	⇌ or RELAY

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

5 When you want to reduce the hiss noise in low-level high-frequency signals, Press DOLBY NR so that "DOLBY NR B" appears in the display.

6 Press EDIT twice.
"TIME EDIT" appears then "SELECT" and "TIME" appears alternately.

7 Press ⊠ / ⊠ on the remote to designate the tape length or "HALF".
As you press the button, the display changes as follows:

HALF ↔ C-46 ↔ C-54
(23.00) (27.00)
C-90 ↔ C-74 ↔ C-60
(45.00) (37.00) (30.00)
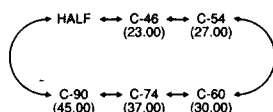
Choose "HALF" if you want the CD player to half of the total playing time of the CD in original order. You cannot select "HALF" when recording CDs with more than 20 tracks.
"PUSH EDIT" and half of the total time of the tape you selected appears in the display.

Half of the total time of the tape

8 Press EDIT.
The CD player determines the tracks to be recorded on side A automatically.
Total time and tracks to be recorded on side A appears in the display.

Tracks to be recorded on side A
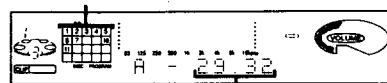
Total playing time on side A

9 When you want to record on both sides, press EDIT again. The CD player determines the tracks to be recorded on side B.

Tracks to be recorded on both sides
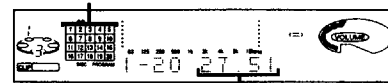
Total playing time on side B

10 Press CD SYNCHRO.
The REC and ◫◫ (pause) lamps light up and deck B stands by for recording.
The ▷ lamp lights up and the ◁ lamp flashes for a few seconds, then disappears.

Side in recording pause mode

If you want to start recording from the reverse side, press ◁ so that the ◁ indicator lights steadily.

11 Press ◫◫ on the tape player to release recording pause.
Recording starts. After about 10 seconds, the CD player starts playing.

To stop recording
Press □ on the tape player.
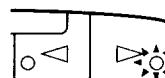
To check the order
Press CHECK on the remote repeatedly.
Each time you press CHECK, the number of the programmed tracks appear in the display.

To cancel time edit
Press CONTINUE on the CD player.

To select the desired tracks beforehand
You can record certain tracks (up to 20) first by selecting them before time editing. See "Playing Tracks in the Desired Order (program play)".

Recording a CD: Specifying Track Order (program edit)

You can adjust the total recording time to the tape length while making a program.

→ continued

SYSTEM POWER→ON

□ CONTINUE

CHECK
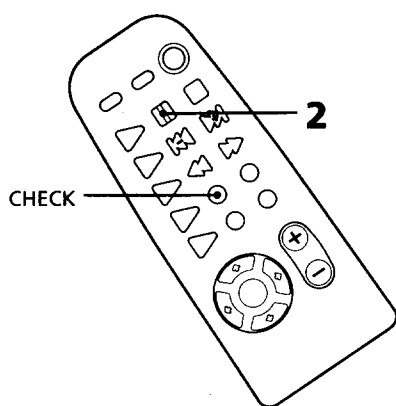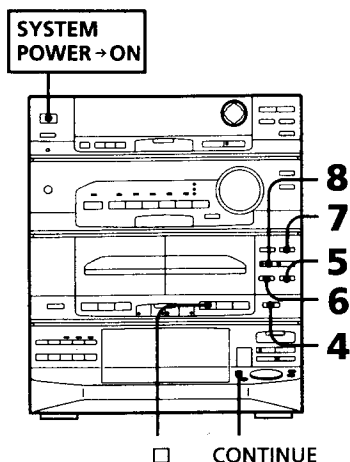
1 Following the procedure "Playing Tracks in the Desired Order (program play)", program the tracks you want to record for side A.
Make sure to program the tracks so that the total playing time of the side A does not exceed the tape length of one side.

2 Press ❚❚ on the remote to pause recording at the end of the side A.
"P" appears in the display.
The total playing time "0.00" is displayed.

3 Program the tracks you want to record for side B in the same way as you did for side A.

4 Press ⏏ EJECT and insert a blank tape into deck B with the side you want to record on facing forward.
Recording will start from the front side of the tape, unless you have changed the playing direction before recording.
Make sure the tabs on the cassette have not been removed.

5 Select dual or single-sided recording.

To record	Press DIRECTION to select
One side of the tape	⇌
Both sides*	⊂⊃ or RELAY

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

6 When you want to reduce the hiss noise in low-level high-frequency signals, Press DOLBY NR so that "DOLBY NR B" appears in the display.

7 Press CD SYNCHRO.
The REC and ❚❚ (pause) lamps light up and deck B stands by for recording.
The ▷ lamp lights up and the ◁ lamp flashes for a few seconds, then disappears.

Side in recording pause mode

If you want to start recording from the reverse side, press ◁ so that the ◁ indicator lights steadily.

8 Press ❚❚ on the tape player to release recording pause.
Recording starts.
After about 10 seconds, the CD player starts playing.

To stop recording
Press □ on the tape player.

To check the order
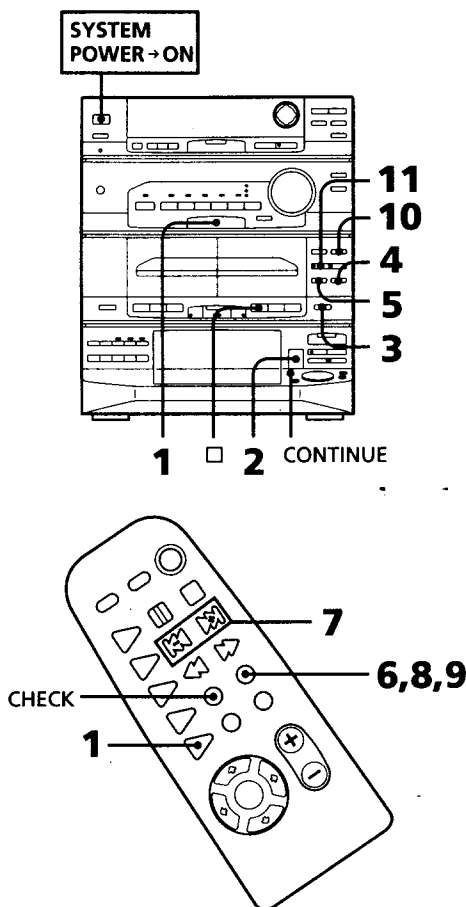Press CHECK repeatedly.
Each time you press CHECK, the number of the programmed tracks appear in the display.

To cancel program edit
Press CONTINUE.

Recording From the Radio

You can record from the tuner onto a tape.
Use TYPE I (normal) or TYPE II (CrO₂) tape.
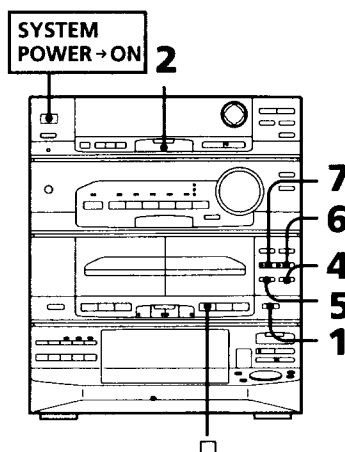
SYSTEM POWER→ON

1 Press ⏏ EJECT and insert a blank tape into deck B with the side you want to record on facing forward.
Recording starts from the front side oh the tape, unless you change the playing direction before recording.
Make sure the tabs on the cassette have not been removed.

2 Press TUNER/BAND several times until the desired radio band appears.

3 Tune in the radio station you want to record. (See "Listening to the Radio", or "Playing Preset Radio Stations" for details.)

4 Select dual or single-sided recording.

To record	Press DIRECTION to select
One side of the tape	⇌
Both sides*	⊂⊃ or RELAY

* Recording always stops at the end of the reverse side. Be sure to start from the front side.

5 When you want to reduce the hiss noise in low-level high-frequency signals, Press DOLBY NR so that "DOLBY NR B" appears in the display.

6 Press REC.
The REC and ❚❚ (pause) lamps light up and deck B stands by for recording.

The ▷ lamp lights and the ◁ lamp flashes for a few seconds, then disappears.

Side in recording pause mode
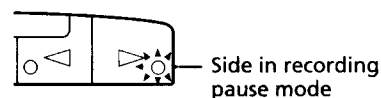
If you want to start recording from the reverse side, press ◁ so that the ◁ indicator lights steadily.

7 Press ❚❚ on the tape player to release recording pause.
Recording starts.

To stop recording
Press □ on the tape player.

To reduce noise during AM recording
If a whistling noise is heard while recording, reorient the AM loop antenna for optimum reception.

Recording From Another Tape (dubbing)

Dubbing Another Tape Automatically

You can record an entire tape onto another automatically by using high speed dubbing. Use the buttons on the unit and TYPE I (normal) or TYPE II (CrO₂) tape for dubbing.
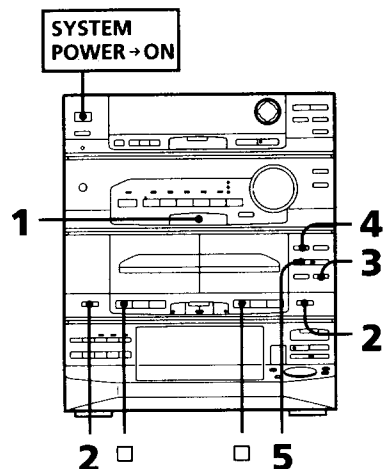
1 Press FUNCTION repeatedly until "TAPE" appears in the display. TAPE is selected.

2 Press ⏏ EJECT and insert a recorded tape in deck A with the side you want to play facing forward.
Also, insert a blank tape in deck B with the side you want to record on facing forward.
Recording and playback will start from the front side of the tape, unless you change the playing direction before recording.
Make sure the tabs on the cassette in deck B have not been removed.

3 Choose how you want the tape to record and press DIRECTION repeatedly until the desired mode appears.

Position	Operation
⇌	Dubbing stops at the end of one side
⊂⊃	When the tape in one deck comes to the end of the front side, it reverses immediately regardless of the tape position in other deck.
RELAY	When the tape in one deck reaches its end of the front side, it stops until the other tape come to its end, and then both tapes reverse together.

4 Press HIGH SPEED DUBBING.
The REC and ▯▯ (pause) lamps light and deck B stands by for recording.
The ▷ lamp lights and the ◁ lamp flashes for a few seconds, then disappears.

Side in recording pause mode

If you want to start recording from the reverse side, press ◁ so that the ◁ indicator lights steadily.

5 Press ▯▯ on the tape player.
The tape player starts dubbing at high speed.
If you set DIRECTION to ⊂⊃ or RELAY, recording always stops at the end of the reverse side.

To stop dubbing
Press ☐ on either the deck A or deck B

If you select another sound source while dubbing
Dubbing stops.

You do not have to press DOLBY NR with high speed dubbing
The tape in deck B is automatically recorded in the same state as the tape in deck A.

Dubbing Another Tape Manually

When you want to dub only part of the tape, dub manually at normal speed. Use the buttons on the unit and TYPE I (normal) or TYPE II (CrO₂) tape for recording.
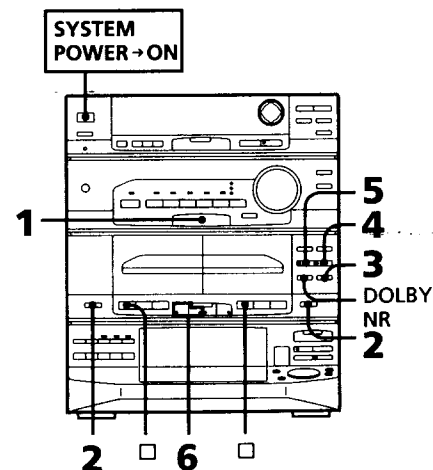
1 Press FUNCTION repeatedly until "TAPE" appears in the display. TAPE is selected.

2 Press ⏏ EJECT and insert a recorded tape in deck A with the side you want to play facing forward.
Also, insert a blank tape in deck B with the side you want to record on facing forward.
Recording and playing will start from the front side of the tape, unless you have changed the playing direction before recording.
Make sure the tabs on the cassette in deck B have not been removed.

3 Select dual or single-sided recording.

| To dub	Press DIRECTION to select
One side of the tape	⇌
Both sides*	⊂⊃ or RELAY

* Recording always stops near the end of the reverse side. Be sure to start from the front side.

4 Press REC.
The REC and ▯▯ (pause) lamps light up and deck B stands by for recording.
The ▷ lamp lights and the ◁ lamp flashes for a few seconds, then disappears.

Side in recording pause mode

If you want to start recording from the reverse side, press ◁ so that the ◁ lamp lights steadily.

5 Press ▯▯ on the tape player to release recording pause on deck B.
Recording starts on deck B.
If you set DIRECTION to ⊂⊃ or RELAY, recording always stops at the end of the reverse side.

6 Press ◁ or ▷.
The tape on deck A starts playing.

To stop dubbing
Press ☐ on deck A or deck B.

Notes
• When dubbing tapes originally recorded with Dolby NR B, the dubbled tape is automatically recorded with Dolby NR B.
• When you want to record a tape recorded without Dolby NR B onto another tape using Dolby NR B, press DOLBY NR so that "DOLBY NR B" appears in the display.

Chapter 5:
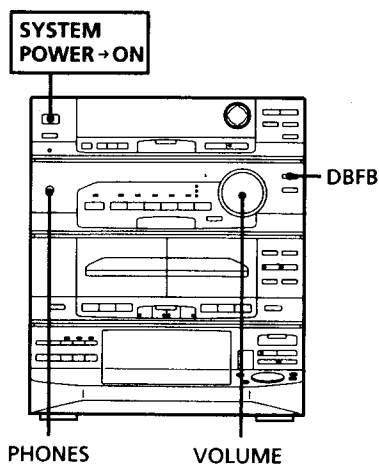# Sound Adjustment

Adjusting the Sound

Selecting the Audio Emphasis

Adjusting the Audio Emphasis

Making Your Personal Audio Emphasis File (personal file)

Adjusting the Sound

To fully enjoy the sound coming from your stereo system, make the following audio adjustments. See the sections following this one for additional sound adjustments.

To adjust the volume
Turn the VOLUME on the unit clockwise/counterclockwise to increase or decrease the sound or press VOL (+/−) on the remote.

To reinforce bass
Press DBFB* repeatedly and choose DBFB ▇\\\ or DBFB ▇\\\\\\ .

"DBFB ▇\\\\\\ " is stronger than "DBFB ▇\\\ ".

* DBFB = Dynamic Bass Feedback

To listen through the headphones
Connect the headphones to the PHONES jack. No sound will come from the speakers.

Selecting the Audio Emphasis

Your stereo system has been factory set to 10 specially recommended audio emphasis settings. Choose from among these five preset settings according to the type of music you are listening to.
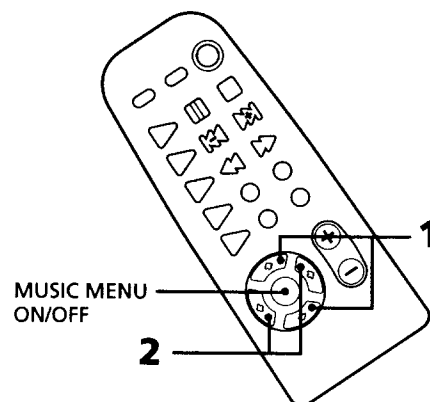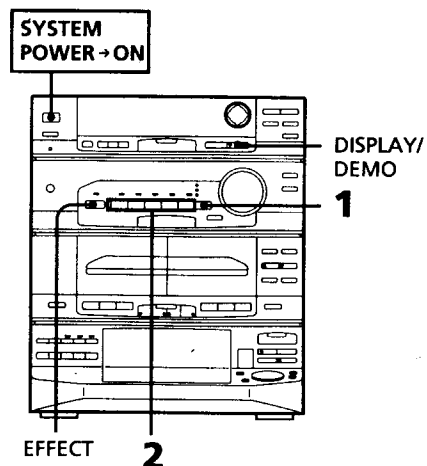
1 Press FILE SELECT (or MUSIC MENU ⇧/⇩ on the remote) to select SELECT 5 or MORE 5. The SELECT 5 or MORE 5 indicator lights up.

2 Press one of the FILE 1 – 5 buttons on the unit (or MUSIC MENU ⇦/⇨ on the remote).
The indicator of the selected preset setting button lights up.
The effects of preset settings are as follows:

Press	to get (from SELECT 5)	To get (from MORE 5)
FILE 1	ROCK	GAME
FILE 2	POPS	DANCE
FILE 3	JAZZ	PARTY
FILE 4	CLASSIC	NIGHT
FILE 5	SALSA	MOVIE

"SUR |((((▪▪)))| " appears in the display if you select an effect with surround effects.

To cancel the audio emphasis
Press EFFECT (or MUSIC MENU ON/OFF on the remote) once so that the EFFECT indicator and the selected preset setting indicator go off.
"EFFECT OFF" appears in the display.

To change the equalizer display

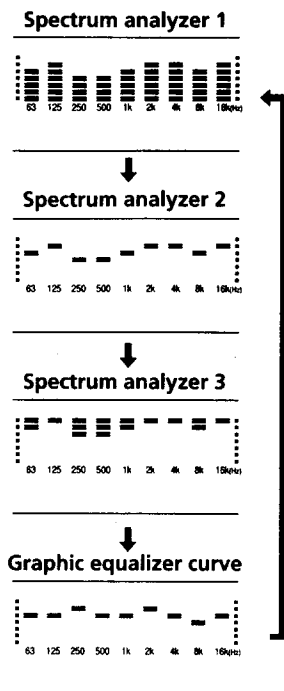Each time you hold down DISPLAY/ DEMO for a few seconds, the equalizer display changes to show one of the following displays:

Spectrum analyzer 1

↓

Spectrum analyzer 2

↓

Spectrum analyzer 3

↓

Graphic equalizer curve

Adjusting the Audio Emphasis

You can adjust the audio emphasis using the following two functions:
• Graphic equalizer
• Surround effect

Adjusting the Sound (graphic equalizer)

This feature lets you adjust the audio emphasis by raising and lowering the level of frequency ranges. Before operation, first select the emphasis you want for your basic sound.

1 Press one of ◄, ►, ▲ or ▼ (CURSOR CONTROL).
The frequency range appears and the level value flashes in the display.

2 Press ◄ or ► to select the frequency range you want to change.

Frequency range

Level value
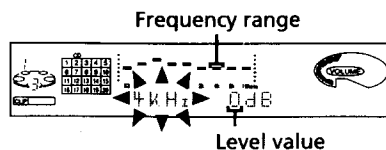
3 Press ▲ or ▼ to raise or lower the level of the frequency range.

flashing

flashing
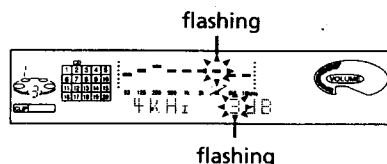
4 Repeat steps 2 and 3 to adjust other frequency ranges and press ENTER/ NEXT.

Activating the Sound Field (Surround)

You can use the surround effect without connecting the surround speakers. Before operation, first select the audio emphasis you want for your basic sound.

To turn on the surround effect
Press SURROUND.
"SUR (((((■))))) " appears in the display.

To turn off the surround effect
Press SURROUND so that "SUR (((((■))))) " disappears from the display.

Notes
• When you choose other sound effects, the surround effects will be canceled.
• To retain the adjusted sound effect for future use, store it into a personal file (see "Making a Personal Audio Emphasis File (personal file)").
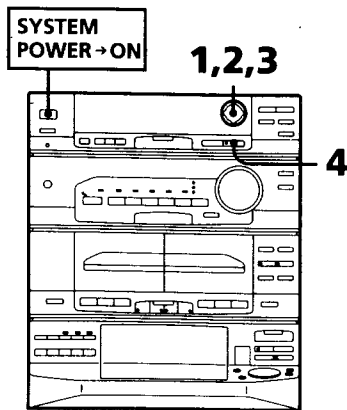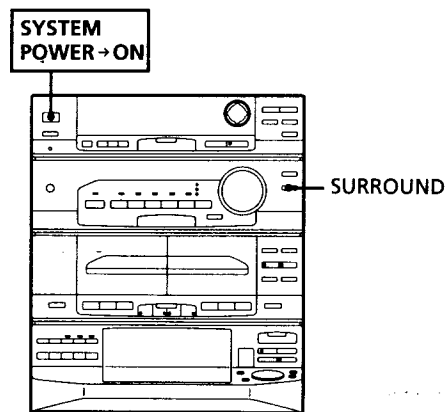
Making Your Personal Audio Emphasis File (personal file)

You can create a personal file of audio patterns and store them in the player's memory. Later, call up this audio pattern to play a favorite tape, CD, or radio program. You can create up to five audio files.

4 Press one of the FILE 1 – 5 buttons to store the sound effect.
"MEMORY" disappears and the name of the file you stored appears in the display.

To call up the personal file
Press FILE SELECT (or MUSIC MENU ⇧/⇩ on the remote) to select P FILE. The P FILE indicator lights up. Then press one of the FILE 1 – 5 buttons (or MUSIC MENU ⇦/⇨ on the remote).

To erase the personal file
Store a new personal file at a previously used personal file number (FILE 1 – 5) to erase the old personal file.

Note
If you press SURROUND when you choose one of the preset settings (SELECT 5 and MORE 5), the preset setting will be canceled automatically.

1 Obtain the sound effect you want. (See "Selecting the Audio Emphasis" and "Adjusting the Audio Emphasis" for details).

2 Adjust the sound with the CURSOR CONTROL (See "Adjusting the Audio Emphasis" for details).

3 Press EQ MEMORY.
"MEMORY" appears and "F 1 – 5" flashes in the display.

flashing

Falling Asleep to Music

Waking Up to Music

Timer-Recording Radio
   Programs

Connecting Optional
   Equipment

Falling Asleep to Music
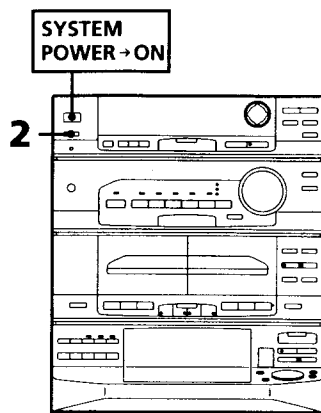
You can set the stereo system to turn off
automatically so you can fall asleep to
music (Sleep timer).
Before setting the sleep timer, make sure
the clock has been set correctly.
You can set the sleep timer even if you have
set the daily or recording timer.

1 Play your favorite sound source (a tape,
the tuner or a CD).

2 Press SLEEP repeatedly to choose how
long you want the music to play.
"SLEEP" and minutes indication appear
in the display. The power will turn off
after 10 to 90 minutes depending on the
length of time you choose.

```
AUTO──► 90 ──► 80 ──► 70 ┐
 ▲                        │
 └OFF◄─10 ◄─ 20 ◄·······◄─┘
```
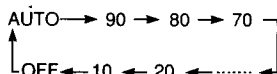
When you choose AUTO
The power turns off when the current CD
or tape finishes playback (for up to 100
minutes).
The power turns off even when you stop
playing a CD or a tape or pause a tape
while playing.

To cancel the sleep timer
Press SLEEP repeatedly until "OFF"
appears in the display.

**To check the remaining time before
the sleep timer turns off the system**
Press SLEEP once.
The remaining time (in minutes) is
displayed for several seconds.

**To change the remaining time while
the sleep timer is on**
Press SLEEP repeatedly to select the
remaining time you desire.

Note
While the sleep timer is turned on, the daily
and recording timer do not work.

Waking Up to Music

You can wake up to music at a preset time.
You only need to set the timer once. When
you select the CD player as the sound
source, you can play a CD in any mode
(normal, shuffle, or program). Before
setting the timer, make sure the clock has
been set correctly. You can set the daily
timer even if you have set the sleep or
recording timer.
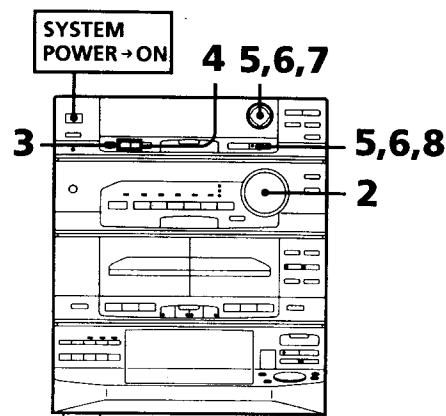
1 Prepare the sound source.

To wake up to the radio
Tune in the preset station you want.

To wake up to a CD
Insert a CD and close the front cover.
Make sure the disc number in the
playing position in the display is the one
you want to play.
 If you want to play from a specific
track, follow the procedures for
programmed CD play (See "Playing
Tracks in Desired Order (program
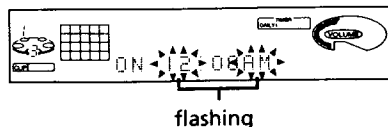play)").

To wake up to a tape
Insert the tape with the side you want to
play facing forward. If you insert the
tapes in both decks, you will hear the
sound from deck B.

2 Turn the VOLUME control to adjust the
volume.
 The music will start playing with the
adjusted volume when the preset time
comes.

3 Press TIMER SET.
"SELECT" and "TIMER" appears
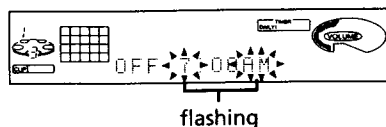alternately in the display.

4 Press DAILY 1 or DAILY 2.
"ON" appears and the hour digits and
"AM" flash in the display.

flashing

5 Press ◀ or ▶ (CURSOL CONTROL) to
set the hour you want the system to turn
on, then press ENTER/NEXT.
Set the minutes in the same way. "OFF"
appears and the hour digits flash in the
display.

flashing

6 Press ◀ or ▶ to set the hour you want
the system to turn off, then press
ENTER/NEXT.
Set the minutes in the same way.

7 Press ◀ or ▶ to select a sound source.
The display changes as follows:

TUNER ←→ CD ←→ TAPE

flashing
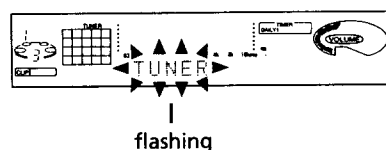
8 Press ENTER/NEXT.
The preset items appear in order in the
display.

9 Press SYSTEM POWER to turn off the
system.
The power will turn on at the preset
time and the music will play with the
volume you have adjusted.
At the turn-off time, the power will go
off again.

To change the preset timer settings
Start over from step 1.

To check the preset timer settings
1 Press DAILY 1 or DAILY 2 which ever
you have set once.
2 "TIMER OFF" appears in the display.
3 Press DAILY 1 or DAILY 2 again.
The preset items appear in order in the
display, then "DAILY 1 ON" or "DAILY
2 ON" appears in display.

To change the timer
Press the desired timer button.

To cancel the timer
1 Press DAILY 1 or DAILY 2 which ever
you have set once.
2 "TIMER OFF" appears in the display.

Notes
• You cannot set DAILY 1 and DAILY 2 at
the same time.
• You cannot set timer if the timer on and
off times are the same.
• When you set the sleep timer, DAILY
timer does not turn on until the system
turns off by the sleep timer.
• You cannot activate daily timer and
recording timer at the same time

Timer-Recording Radio Programs

You can set the timer to record the radio.
This timer works only once for each setting.
The volume level is automatically set to the
minimum.
Make sure the clock has been set correctly
and preset the station beforehand. (See
"Presetting Radio Stations").
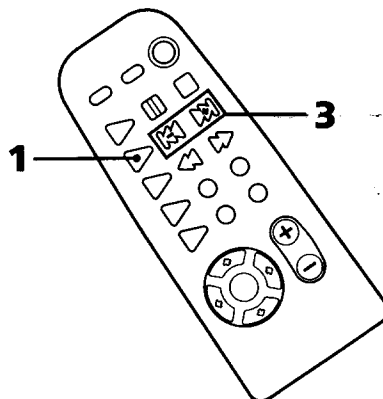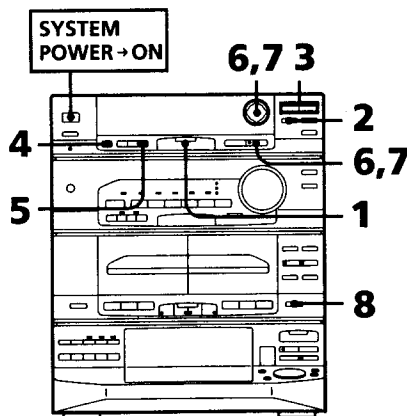
1 Press TUNER/BAND repeatedly until
the band you want appears in the
display.

2 Press TUNING MODE repeatedly until
"PRESET" appears in the display.

3 Press TUNING +/– button (or ▷◁ / ▷◁
on the remote) to tune in a preset
station.

4 Press TIMER SET.
"SELECT" and "TIMER" appears
alternately in the display.

5 Press REC.
"ON" appears and the hour digits and
"AM" flash in the display.

flashing
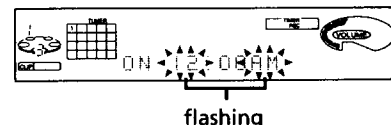
6 Set the hour you want to start recording
by pressing ◀ and ▶ (CURSOR
CONTROL), then press ENTER/NEXT.
Set the minutes in the same way.
"OFF" appears and the hour digits flash
again.

7 Set the hour you want to stop recording
by pressing ◀ and ▶ (CURSOR
CONTROL), then press ENTER/NEXT.
Set the minutes in the same way.
The preset items appear in order in the
display.

8 Insert a tape in deck B with the side you
want to record facing forward.
Recording always starts from the front
side. If necessary select the direction
mode. You can use TYPE I (normal) or
TYPE II (CrO₂) tapes.

9 Press SYSTEM POWER to turn off the
system.
The power will turn on at the preset
time and the recording will start with
the minimum volume level
automatically.
At the turn-off time, the power will go
off again.

To cancel the timer settings
Press REC so that "TIMER REC"
disappears from the display. Press REC
again to activate the timer.

To check the timer settings
Press REC twice in succession.

To change the timer settings
Repeat step 1 to 9.

Notes
• The band and station will be recalled as
you have set them, but the recording does
not start if the system power is on.
• You cannot activate recording timer and
daily timer at the same time.

Connecting Optional Equipment

For greater enjoyment of your stereo system, you can connect other components to the stereo. You can connect :

- a VCR to the VIDEO (AUDIO) IN jacks
- a turntable to the PHONO IN jacks
- headphones to the PHONES jack on the front panel

To connect a VCR

1 Connect a VCR or other video equipment to the VIDEO (AUDIO) IN jacks.
2 Press FUNCTION repeatedly until "VIDEO" appears in the display.
   The connected sound source comes through the speakers.
   You can also record the VCR sound.

To connect a turn table

1 Connect the turntable to the PHONO IN jacks on the rear panel.
2 Press FUNCTION until "PHONO" appears in the display.
   The turntable sound comes through the speakers.
   You can also record the turntable sound.

Note

When you use the turntable, adjusting the volume high may cause distortion or howling. This is often caused by the bass sound from the speakers which vibrate the floor and air. That vibration could be picked up by the needle of the record player, and produce the distortion or howling. To avoid distortion or howling, do the following:

1 Keep some distance between the speakers and the turntable.
2 Stop using the surround effect.
3 Install the speakers or the turntable on a firm and solid place.
4 Set DBFB to "DBFB ▬\\\ " or OFF.

For Your Information

Precautions

If you have any questions or problems concerning your stereo system, please consult your nearest Sony dealer.

Caution

The use of optional instruments with this product will increase eye hazard.

On operating voltage

Before operating the stereo system, check that the operating voltage of your stereo system is identical with the voltage of your local power supply.

Operating voltage	120 V AC, 60 Hz

On safety

- The stereo system is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the system itself has been turned off.
- Unplug the system from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Do not pull the cord itself.
- Should any solid object or liquid fall into a component, unplug the stereo system and have the component checked by qualified personnel before operating it any further.
- Should the AC power cord need to be changed, have it done at a qualified service shop only.
- As the laser beam used in this unit is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

On installation

Place the stereo system in a location with adequate ventilation to prevent heat build-up in the stereo system.

## On condensation in the CD player component

If the system is brought directly from a cold to a warm one, or is placed in a very damp room, moisture may condense on the lens inside any CDs player. Should this occur, the CD player will not operate. Remove any CDs and leave the system turned on for about an hour until the moisture evaporates.

To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette safety tab from side A or B as illustrated. If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.
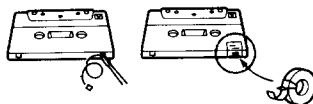
When you are using a type II (CrO2) cassette, be careful not to cover the detector slots which allow the tape player to automatically detect the type of tape.

TYPE II
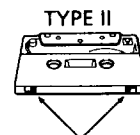
Detector slots

In case color irregularity is observed on nearby TV screen

With the magnetically shielded type of speaker system, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set.

If color irregularity is observed...

Turn off the TV set once, them turn it on after 15 to 30 minutes.

If color irregularity is observed again...

Place the speakers farther away from the TV set.

Troubleshooting Guide

If you run into any problem using this stereo system, use the following check list. first check the following points.
- The AC power cord is connected firmly.
- The speakers are connected correctly and firmly.

Should any problem persist after you have made the checks below, consult your nearest Sony dealer.

Tuner

"TUNED" flashes in the display.
→ Adjust the antenna.

"STEREO" flashes in the display.
→ Adjust the antenna.

Severe hum or noise.
→ Adjust the antenna.
→ The signal strength is too weak. Connect the external antenna.
→ Connect the ground wire.

A stereo FM program cannot be received in stereo.
→ Press STEREO/MONO so that "STEREO" appears.

Tape Player

The tape does not record.
→ No tape in the cassette holder.
→ The safety tab has been removed from the cassette.
→ The tape has reeled to the end.

The tape does not record nor play back or there is a decrease in sound level.
→ The heads are dirty. Clean them.
→ Magnetic deposits have built-up on the record/playback heads.*

There is excessive wow or flutter, or the sound drops out.
→ The capstans or pinch rollers are contaminated.*

The tape does not erase completely.
→ Magnetic deposits have built- up on the record/playback heads.*

Noise increases, or the high frequencies are erased.
→ Magnetic deposits have built-up on the record/playback heads.*

* See "Maintenance".

CD Player

The CD will not play.
→ The CD is dirty.
→ The CD is inserted label side down.
→ Moisture condensation has built up.
Leave the system turned on for about an hour until the moisture evaporates.

Play does not start from the first track.
→ The player is in program or shuffle mode. Press CONTINUE.

General

There is no sound.
→ Turn VOLUME clockwise.
→ The headphones are connected. Disconnect them.

Sound comes from one channel, or is unbalanced between the left and right speakers.
→ Check the speaker connections of the inoperative channel.

The left and right sounds are reversed.
→ Check the speaker connections and speaker placement.

There is no bass or the location of the musical instruments is apparently imprecise.
→ Check the speaker connection for proper phasing.

There is severe hum or noise.
→ The TV, VCR or speakers are too close to the stereo system. Move the stereo system away from the TV, VCR or speakers.

"12:00 AM" flashes in the display.
→ A power interruption occurred. Set the clock again.

Demo mode appears in the display after deactivating the demo mode.
→ When a power interruption occurs for longer than half a day, set the timer settings and tuner presetting again.

The remote does not function.
→ The batteries have run down. Replace both batteries.
→ There is an obstacle between the remote and the system. Remove the obstacle.

Maintenance

To clean the tape heads and tape path
Contaminated tape heads cause poor recording or sound drop-out in playback. We recommend cleaning after every 10 hours of operation.

Open the cassette holder and wipe the heads, pinch rollers and capstans with a cleaning swab slightly moistened with cleaning fluid or alcohol. Wipe the parts shown below:

Deck A

Deck B

Insert a tape after the areas cleaned are completely dry.

To demagnetize the tape heads
After 20 to 30 hours of use, enough residual magnetism will have built up on the heads to begin to cause loss of high frequencies and hiss. At this time, demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer. Refer to the instructions of the demagnetizer.

To clean the cabinet
Use a soft cloth slightly moistened with a mild detergent solution.

To clean the CD
When a CD is dirty, clean it with a cleaning cloth. Wipe the CD from the centre out.

Notes on CDs
• Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.
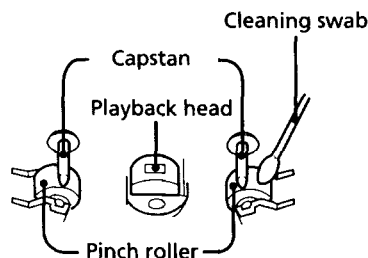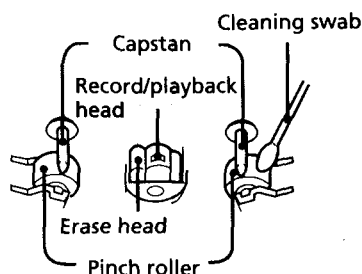• If there is a scratch, dirt or fingerprints on the CD, it may cause a tracking error.

Specifications

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 70 – 20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0,9% total harmonic distortion from 250 milliwatts to rated output.

CD player section
System   Compact disc and digital audio system
Laser   Semiconductor laser (λ = 780 nm) Emission duration: continuous
laser output   Max 44.6 µW*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength   780 – 790 nm

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	
	10.7 MHz

AM tuner section

Tuning range	530 – 1,710 kHz (with the AM tuning interval set at 10 kHz) 531 – 1,710 kHz (with the AM tuning interval set at 9 kHz)
Antenna	AM loop antenna External antenna terminals
Intermediate frequency	
	450 kHz

Tape player section

Recording system
4-track 2-channel stereo
Frequency response
(DOLBY NR OFF)
40 – 13,000 Hz (±3 dB), using
SONY TYPE I cassette
40 – 14,000 Hz (±3 dB), using
SONY TYPE II cassette
Wow and flutter
±0.15% W.Peak (IEC)
0.1% W.RMS (NAB)
±0.2% W.Peak (DIN)

Amplifier section

Continuous RMS power output:
U.S. model: 100 W + 100 W
(8Ω at 70 – 20,000 Hz, 0.9% THD)
Canadian model:
100 W + 100 W
(8Ω at 1 kHz, 5% THD)
Inputs
PHONO (phono jack):
Sensitivity 3 mV, impedance
47 kilohms
VIDEO (AUDIO) (phono jack):
Sensitivity 250 mV , impedance
47 kilohms
Outputs
PHONES (phone jack):
accept headphones of 8 ohms
or more
SPEAKER: accept impedance of 8 ohms
SURROUND SPEAKER:
accept impedance of 16 ohms

Speaker section

Front speaker
SS-D2700

Speaker system
3-way speaker system
Speaker units
Woofer:
17 cm dia., cone type
Tweeter:
6 cm dia,. cone type
Super tweeter:
2 cm dia., dome type
Nominal impedance
8 ohms
Dimensions
Approx. 260 × 480 × 270 mm
(10 1/4 × 19 × 10 3/4 inches)
(w/h/d)
Mass Approx. 5.5 kg (12 lb 2 oz.)
per speaker

Surround speaker
SS-SR120

Speaker system
Full range
Speaker units
Woofer: 10cm dia., full range
Rated impedance
16 ohms
Dimensions
Approx. 175 × 127 × 185 mm
(7 × 5 × 7 3/8 inches) (w/h/d) incl.
front grille
Mass
Approx. 1.3 kg (2 lb 13 oz) per speaker

Supplied accessories

AM loop antenna (1)
Remote RM-SD50 (1)
Sony SUM-3 (NS) batteries (2)
FM wire antenna (1)
Speaker cords (2)

General

Power requirements
120 V AC, 60 Hz
Power consumption
U.S. model: 250 W
Canadian model: 310 VA
Dimensions
Approx. 355 × 425 × 400 mm
(14 × 16 3/4 × 15 3/4 inches) (w/h/d)
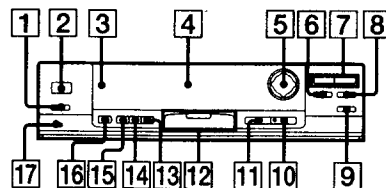incl. projecting parts and controls
Mass
Approx. 11.9 kg (26 lb 4 oz)

Design and specifications subject to change
without notice.

Index to Parts and Controls

Refer to the pages indicated in parentheses
for details on how to use the controls.

Front Panel

Tuner section

[1] SLEEP button (23)
[2] SYSTEM POWER switch (7)
[3] Remote sensor
[4] Display window (29)
[5] CURSOR CONTROL buttons (6, 21)
[6] TUNING MODE buttons (12)
[7] TUNING +/– buttons (12)
[8] TUNER MEMORY button (13)
[9] STEREO/MONO button (12)
[10] ENTER/NEXT button (6, 12, 21)
[11] DISPLAY/DEMO button (6, 8, 21)
[12] TUNER/BAND button (12, 13)
[13] REC button (16)
[14] DAILY 2 button (24)
[15] DAILY 1 button (24)
[16] TIMER SET button (24)
[17] CLOCK SET button (6)

Amplifier section
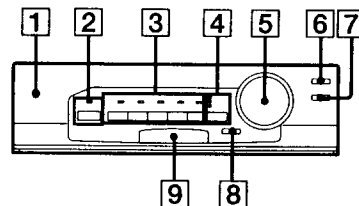
[1] PHONES jack (20)
[2] EFFECT button/indicator (20)
[3] FILE 1 – 5 buttons/indicators (22)
[4] FILE SELECT button/indicators (22)
[5] VOLUME control (7, 20)
[6] DBFB button (20)
[7] SURROUND button (15, 16, 21)
[8] EQ MEMORY button (13)
[9] FUNCTION button (8)

Tape player section
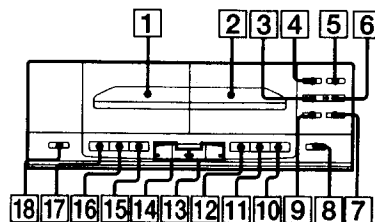
[1] Cassette compartment for DECK A (14)
[2] Cassette compartment for DECK B (14)
[3] ΟΟ (pause) button (14)
[4] HIGH SPEED DUBBING button (19)
[5] CD SYNCHRO button (15)

6 REC button (15)
7 DIRECTION button (14)
8 ⏏ EJECT button for DECK B (14)
9 DOLBY NR button (14)
10 ▷▷ (fast right ward) button for DECK B (14)
11 ◁◁ (fast left ward) button for DECK B (14)
12 □ STOP button for DECK B (14)
13 ◁/▷ (play) button for DECK B (14)
14 ◁/▷ (play) button for DECK A (14)
15 ▷▷ (winding right) button for DECK A (14)
16 ◁◁ (winding left) button for DECK A (14)
17 □ STOP button for DECK A (14)
18 ⏏ EJECT button for DECK A (15)

CD player section
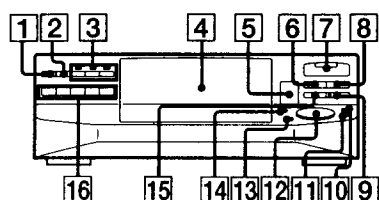
1 MUSIC CLIP PLAY button (11)
2 MUSIC CLIP ERASE button (11)
3 MUSIC CLIP A, B, C buttons/indicators (11)
4 Front cover (7)
5 ⏏ OPEN button (7)
6 ⏸ (pause) button (7)
7 ▷ (play) button (7)
8 □ (stop) button (7)
9 AUTO button/indicator (8)
10 PROGRAM button (9)
11 REPEAT button (9)
12 JOG dial (7)
13 SHUFFLE buttons (8)
14 CONTINUE button (7)
15 DISC SKIP button (7)
16 DISC 1 – 5 buttons (7)

Rear Panel

1 AM terminal (4)
2 FM 75Ω terminal (4)
3 PHONO IN jacks (25)
4 VIDEO (AUDIO) IN jacks (25)

5 SPEAKER connectors (4)
6 SURROUND SPEAKER connectors (4)
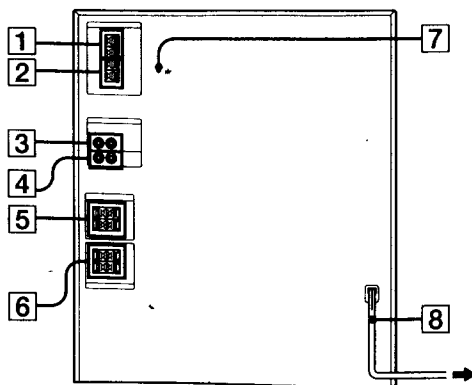7 ⏚ ground terminal (4)
8 AC power cord (5)

Display Window
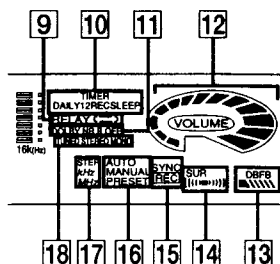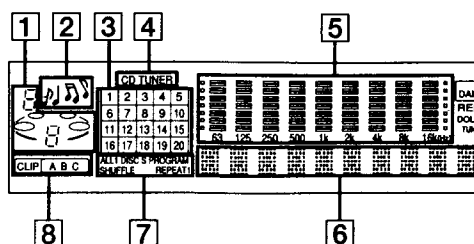
1 Disc calendar (7)
2 Demo mode indications (16)
3 Music calendar (10)
4 CD/TUNER indication (7)
5 Graphic Equalizer indication (21)
6 Multi-display (7, 13)
7 CD play mode indications (7)
8 CLIP indicator (10)
9 Tape direction mode indication (14, 15)
10 Timer indication (23, 24)
11 DOLBY NR B indication (14)
12 VOLUME indication (7)
13 DBFB indication (20)
14 SUR indication (15)
15 SYNC REC indicator (17)
16 Tuning mode indications (12)
17 STEP/frequency waves indication (22)
18 TUNED/STEREO/MONO indications (12)

Remote
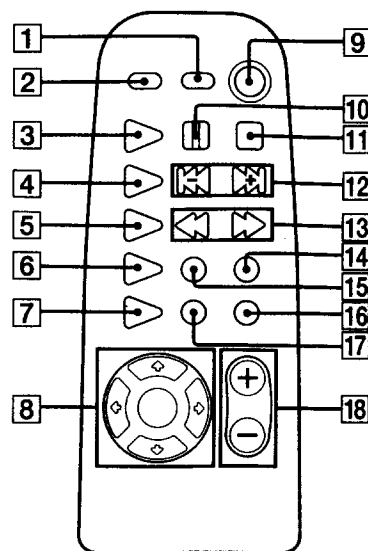
1 SLEEP button (23)
2 LOOP button (10)
3 CD ▷ (play) button (7)
4 TUNER/BAND ▷ button (12)
5 DECK A ▷ button (14)
6 DECK B ▷ button (14)
7 FUNCTION button (7, 14)
8 MUSIC MENU buttons (20)
9 POWER button (7)
10 ⏸ (pause) (7)
11 □ (stop) (7)
12 ⊠ / ⊠ buttons (7)
13 ◁◁ / ▷▷ buttons (8)
14 EDIT button (16)
15 CHECK button (9)
16 DISC SKIP button (9)
17 CLEAR button (9)
18 VOL (volume) +/– buttons (7, 20)

Index